

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

July 2015

CONSTITUENTS	UNITS	SOURCE WATERS								TREATMENT PLANT EFFLUENTS				
		LAKE HAVASU	SAN JACINTO TUNNEL	LAKE MATHEWS	CASTAIC LAKE	SILVER- WOOD LAKE	LAKE PERRIS	DIAMOND VALLEY LAKE	LAKE SKINNER	WEY- MOUTH	DIEMER	JENSEN	SKINNER	MILLS
SILICA	mg/L	7.8	7.1	7.7	14.9	9.4	10.5	10.1	7.6	6.9	7.1	15.0	7.8	9.5
CALCIUM	mg/L	77	78	78	36	30	31	29	63	77	76	36	64	30
MAGNESIUM	mg/L	26	25	25	9	9	13	13	21	26	26	9	23	10
SODIUM	mg/L	97	94	93	75	69	75	58	82	102	101	84	89	79
POTASSIUM	mg/L	4.8	4.7	4.8	2.3	2.5	3.1	3.6	4.4	4.8	4.8	2.4	4.5	2.7
CARBONATE	mg/L	0	2	0	0	0	0	0	0	0	0	0	0	0
BICARBONATE	mg/L	166	160	166	110	106	115	111	148	152	155	109	139	105
SULFATE	mg/L	247	241	239	88	71	69	66	188	261	255	100	203	79
CHLORIDE	mg/L	93	92	92	81	74	95	74	88	100	99	81	99	88
NITRATE	mg/L	1.2	1.1	1.1	4.4	4.6	0.2	<0.1	0.5	1.0	1.0	4.6	0.7	3.0
FLUORIDE	mg/L	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.3	0.8	0.8	0.8	0.7	0.7
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	637	625	624	366	323	354	309	529	656	648	387	561	354
TOTAL HARDNESS AS CaCO ₃	mg/L	294	298	298	124	116	130	124	246	302	302	124	257	116
TOTAL ALKALINITY AS CaCO ₃	mg/L	136	135	136	90	87	94	91	121	125	127	89	114	86
FREE CARBON DIOXIDE	mg/L	2.1	1.1	1.8	3.0	3.5	1.7	6.3	1.2	2.3	2.2	1.3	1.7	1.2
pH	pH	8.11	8.38	8.18	7.78	7.70	8.06	7.47	8.31	8.04	8.07	8.13	8.13	8.18
SPECIFIC CONDUCTANCE	µS/cm	1030	1040	1030	654	591	654	563	895	1080	1040	675	958	640
COLOR	CU	2	2	2	4	7	3	7	2	1	0	1	1	1
TURBIDITY	NTU	1.2	0.46	1.6	2.6	0.20	1.1	2.5	0.45	0.05	0.04	0.04	0.05	0.06
TEMPERATURE	°C	25	28	23	18	19	24	16	25	25	26	23	28	24
BROMIDE	mg/L	0.09	0.07	0.09	0.30	0.28	0.34	0.23	0.13	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.21	3.64	3.20	1.84	2.76	3.68	2.42	3.02	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.60	0.65	0.25	0.65	0.22
STATE PROJECT WATER	%	0	0	0	100	100	100	100	35	0	0	100	25	100